



# User / Service Manual

Full Size Sensor

## **Chapter 0 General**

## Copyright

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**Note:**            **Please follow the notes shown in this text - it will help to cover all situations and keep your engine working.**

**If in the manual is used the name TTX 650 - it is as well meant the TTX 450 and TTX 950 the Puma and Tiger or the S 45 and S 95 !**

## [Contents](#)

<b>CHAPTER 0 GENERAL .....</b>	<b>2</b>
Copyright .....	3
General notes: .....	3
Contents .....	4
<b>CHAPTER 1 INITIATION.....</b>	<b>5</b>
Media limitation.....	6
Unpack .....	6
Assemble Option .....	7
Change position of pressure lever .....	7
Remove media guiding .....	7
Mount full size sensor .....	8
<b>CHAPTER 2 SET UP MODE.....</b>	<b>13</b>
Adjustment of the sensor .....	14
Initialise or activate option .....	15
Check Sensor .....	15
<b>CHAPTER 3 INFORMATION PRINTOUT / PARAMETER .....</b>	<b>16</b>
Parameter Menu.....	17
Status printout .....	18
Status .....	18
ST05 Media is not more in the gap sensor.....	18
ST08 Media is not reaching the gap sensor.....	18
Status reports .....	19
<b>CHAPTER 4 MAINTENANCE, CLEANING AND SERVICE .....</b>	<b>23</b>
Maintenance and cleaning.....	23
Service .....	23
<b>CHAPTER 7 APPENDIX .....</b>	<b>23</b>
Spare parts.....	24
INDEX .....	26

## **Chapter 1 Initiation**

## Media limitation

Please watch carefully, that the full size sensor can only be used with cardboard material (notched) ! The sensor is a digital sensor – means only 0 and 1 – self adhesive media can not be used.

The **minimum media width** – used with the full size sensor – has to be **36 mm** ! If the full size sensor is mounted to the unit – as well the standard sensor can not be used for smaller material.

The optional full size sensor can be moved from

Printer	can be moved from - to (mm)
TTX 450	16 – 93
TTX 650	16 – 134
TTX 950	16 – 165

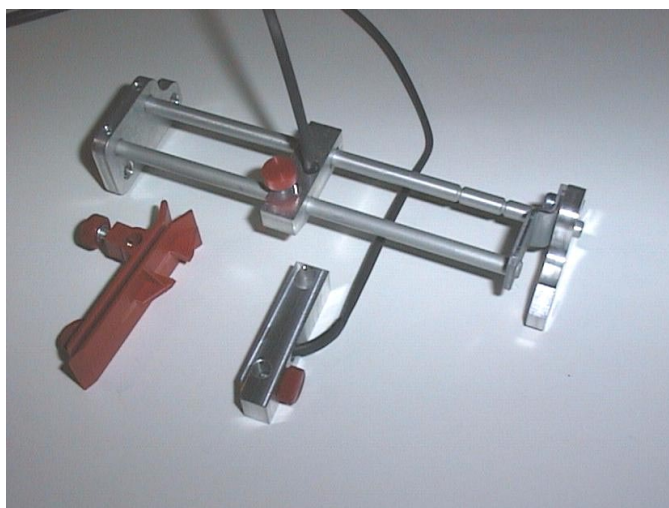
## Unpack

Normally the full size sensor is supplied mounted to the printer (installed) ! If this is not the case – the option can be retrofitted by a service technician !

**Attention:** To activate the sensor please follow the instruction shown in chapter set up mode.

Please check if all parts are delivered

- 2 additional axle
- 1 outer side plate
- 1 inner side plate
- 1 steal part inner
- 1 sensor assy. ( 2 parts – 1 cable)
- 1 outer media guiding

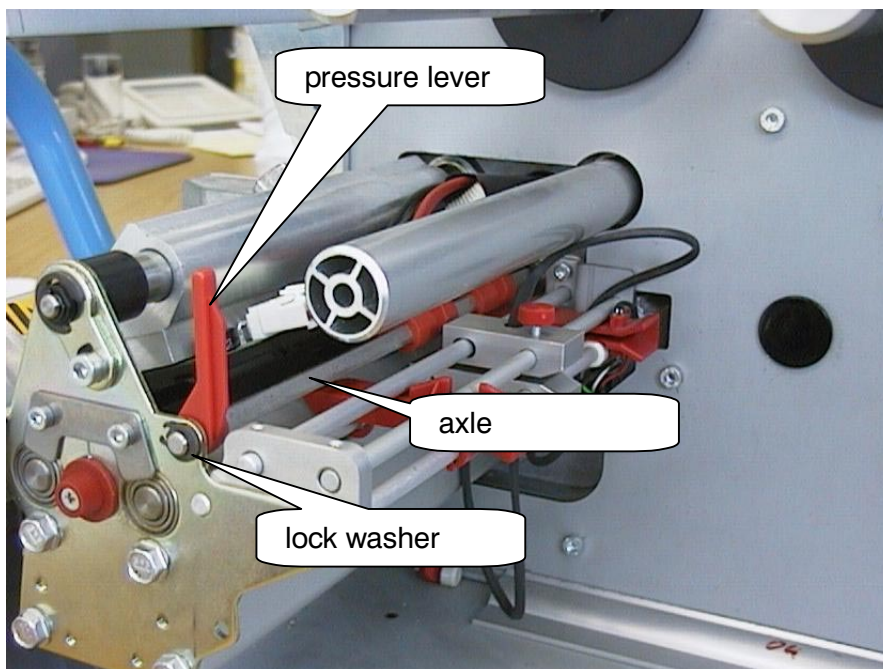


## Assemble Option

### Change position of pressure lever

The lever position has to be changed from its normal position to a position rotated 90 degrees (see photo).

Open the lock washer, push back the axle – remove the lever from the axle – rotated the lever (90 degree) and pull the lever back to the axle. Move the axle back into the hole of the metal plate and lock it with the washer.



### Remove media guiding

The old media guiding has to be removed from the unit. Therefore loosen the two axles (locked with bushes) – open as well the hexagonal screws of the guiding (if there) – and remove the axles to the front of the steel plate.

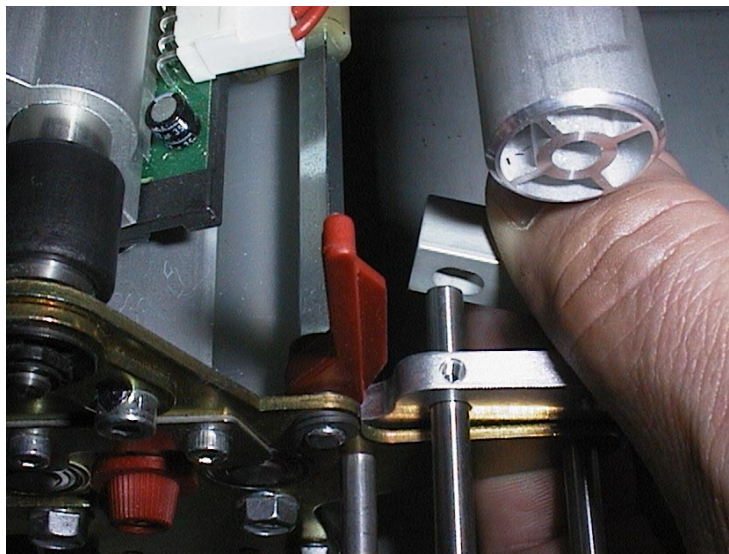
**Attention:** The inner guiding (with the sensor) will be used again – the outer guiding can be thrown away . The new one (delivered with the sensor) will be used.

### Mount full size sensor

Move the outer side plate from the inner side to the steel plate (see picture) and insert the old axles into the drilled holes to lock the plate in this position. Take care that the axles are inserted just 1 cm.



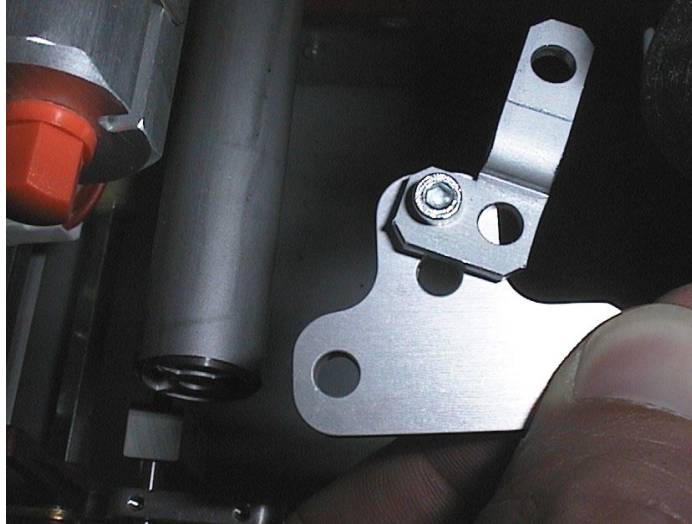
The upper – front axle has to be moved into the hole of the side plate (near print head) – and the upper part of the full size sensor has to be slipped onto.





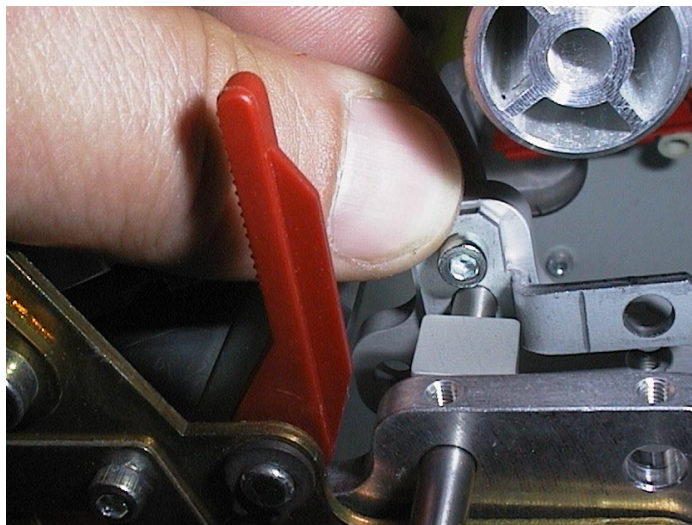
Screw the metal plate to the inner side plate

**Attention:** Take care that the screw is not tighten – both parts should be able to move.



Slip the assemble to the upper – front axle. The end of the axle has to end with the inner side of the plate (please take care about that) and fix the axle by using the hexagonal screw in the plate.

**Attention:** Now you can tighten the screw fixing metal plate and inner side plate together.



Now the other parts of the full size sensor can be mounted to the other axles – please follow the shown sequence

outer media guiding

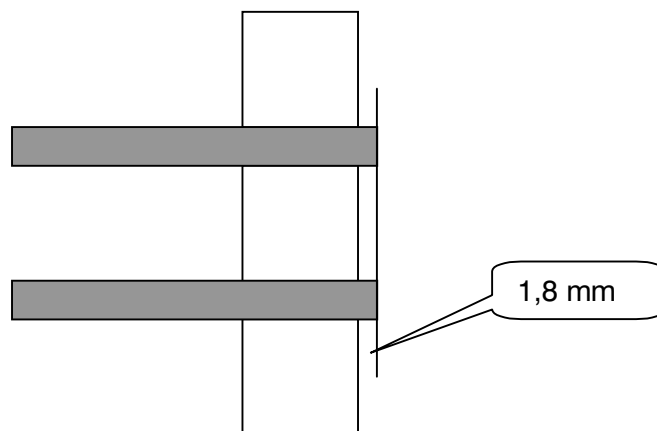
lower part of the sensor

inner media guiding

Then insert the upper – rear axle into the outer side plate – the upper part of the full size sensor (rear hole) has to slide on the axle



The two lower axles slip into the holes of the inner side plate and have to be adjusted in a way that 1,8 mm (+/- 0,1 mm) of the axles are looking out of the inner side plate. Fix the axles by use of the hexagonal screws.

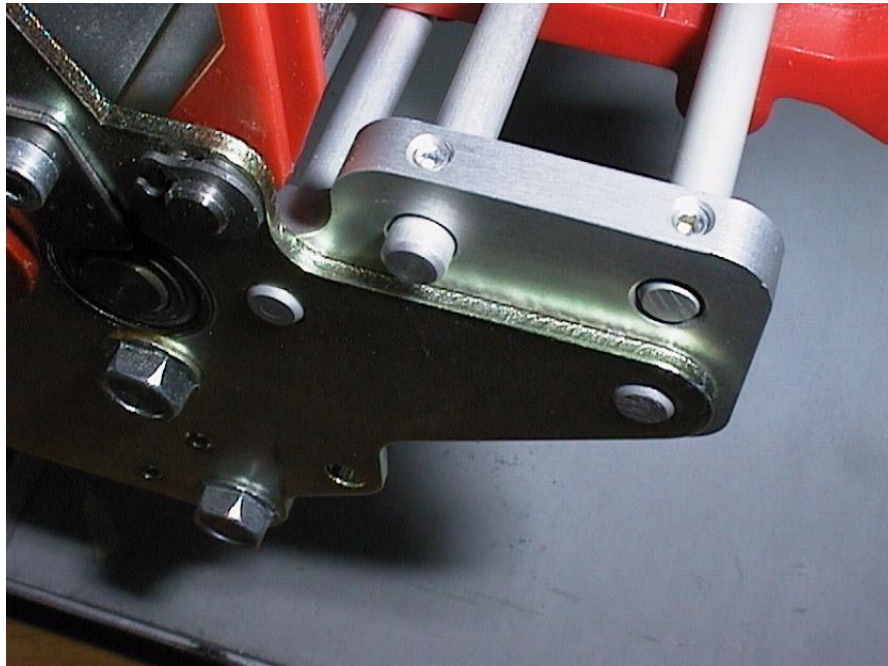


The upper – rear axle fits into the hole of the metal part

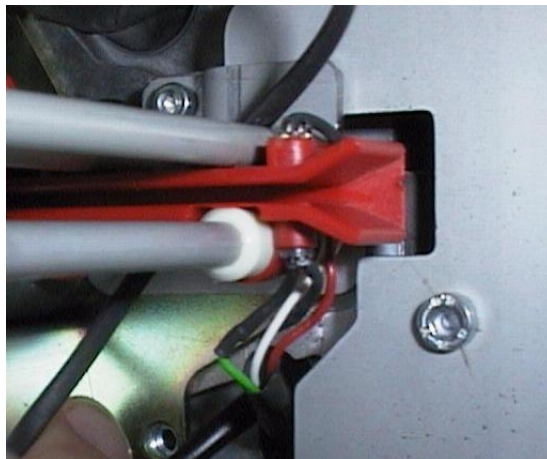
Guide the cable of the full size sensor the same way the other sensor cable is guided into the printer (through the metal casting)

Press the inner side plate against the metal casting – the two axles fit into the holes in the metal casting

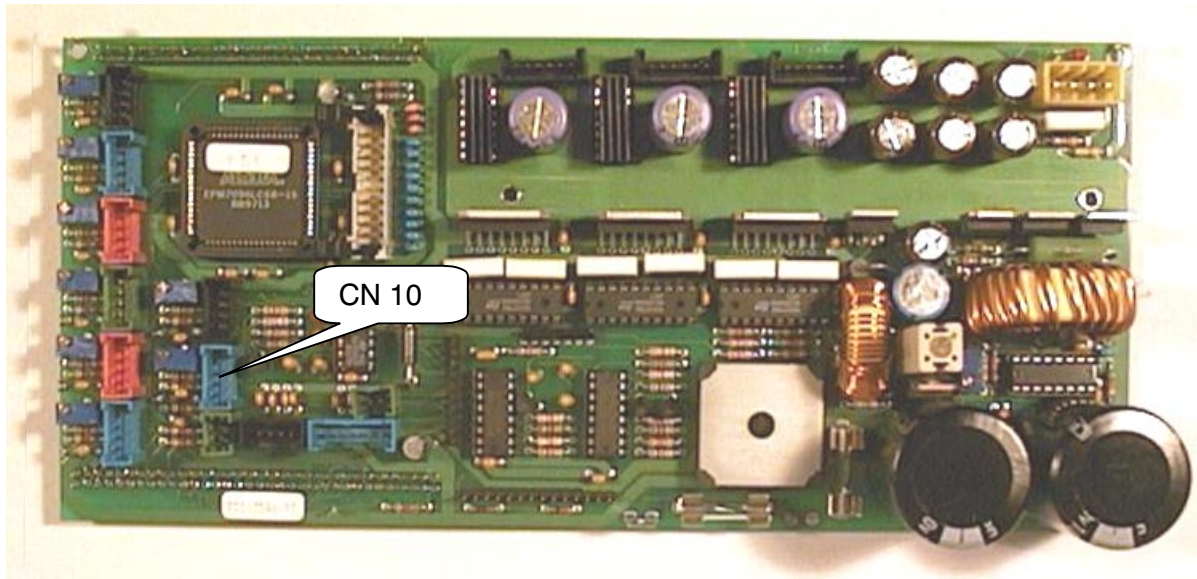
Press the outer side plate against the steel plate and fix it with the hexagonal screws in a way that the whole assembly is fixed secure



Take care that the inner media guiding is fixed in the correct position to the axle (inner zero line)



Connect the connector of the sensor cable to CN 10 on the I/O board as shown on the picture below



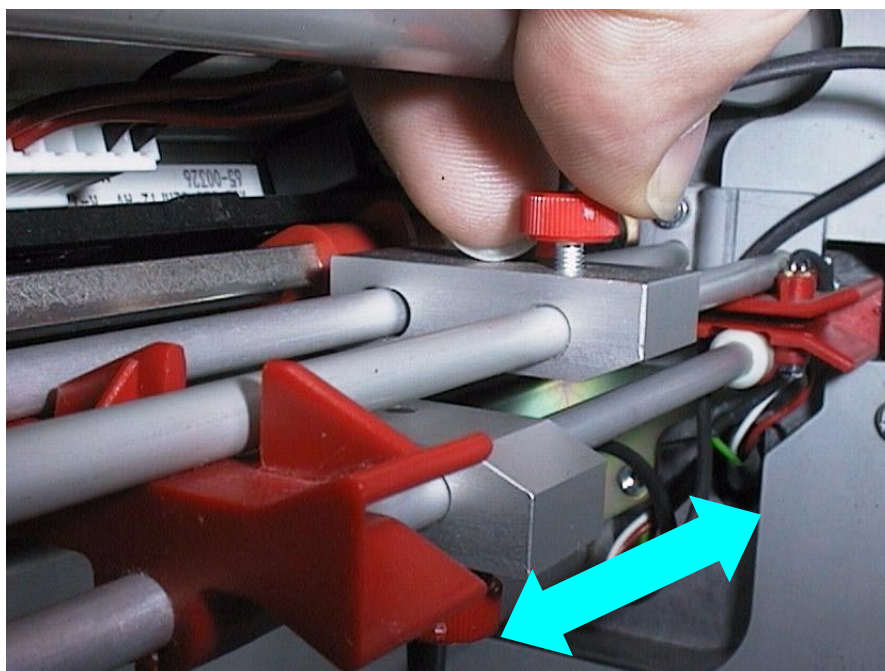
## **Chapter 2 Set up mode**



### Adjustment of the sensor

After the sensor is mounted to the printer – it has to be adjusted to the position of the gap on the media .

Both parts of the sensor are equipped with screws – used to fix the sensor on the axle. Both parts have to be adjusted in the correct position ! Then activate the sensor and test it.



## Initialise or activate option

After you have mounted the option correctly to the printer - and the necessary adjustment the option can be activated

This can be done by changing the parameter in the Firmware.



- |                                       |               |             |
|---------------------------------------|---------------|-------------|
| • switch on the unit                  | display shows | <b>OFF</b>  |
| • press FEED and CUT at the same time | display shows | <b>INFO</b> |
| • press CUT until                     | display shows | <b>SYSP</b> |
| • press ENTER                         | display shows | <b>EMUL</b> |
| • press CUT until                     | display shows | <b>SENS</b> |
| • select until                        | display shows | <b>FULL</b> |
| • press ENTER to accept               | beep          |             |
| • press FEED and CUT                  | display shows | <b>SYSP</b> |
| • press FEED and CUT                  | display shows | <b>OFF</b>  |

**Attention:** The option is now activated - all other option's are deactivated!

## Check Sensor

The sensor of the full size sensor – used to detect the presence of a label – can be checked.

Select in the printer menu the function **SCHK** – go to menu point **U xx** and test the function of the sensor.

Without media a shown in the display ,U 0'

with media is shown ,U 15'

**Chapter 3 Information printout / parameter**



## Parameter Menu

### OFFLINE

INFO	PRTD	IFAC	SYSP	JCLR	SCLR	OTHR
STA0	PSPD	PORT	EMUL			DOWN
STA1	MTYP	SPOL	NACH			LCLR
STA2	MLEN	BMOD	SENS			CCLR
STA3	MWID	20H	PUNS			ICLR
DOT1	PUNO	BAUD	FMOD			ADJS
DOT2	BCHI	PARI	OMOD			MCHK
	UPCA	DBIT	SMOD			SCHK
	CSPD	SBIT	EXTR			PCHK
	CPOS	HAND	SGMO			FACT
	CWID	PRID	CODE			SERV
	CDIS		HRES			NULL
	ASPD		HVOF			HADJ
	ADIS		CLKK			ACSC
	MPOS		USMD			
	XPOS		LREP			
	YPOS		CSET			
	SSPD		MEND			
	GAP		SCAN			
	CMOD		SERR			
	DMOD		PEPH			

Standard / standard

Nur mit Messer / cutter only

Spender mit Applikator / dispenser with applicator

Für Spender (MPOS – auch mit Abreißkante) / dispenser only (MPOS – tear off as well)

Nur mit Scanner / scanner only

Nur mit Color Option / with color option only

Nur für Service / for service only

## Status printout

**Attention:** Status printout is not available during infeed operation - there is no media to print to!

## Status

### ST05 Media is not more in the gap sensor

from version            1.15 for TTX 650  
                              1.00 for TTX 450/950

Action:                    Check the length inside your format  
                              press ON/OFF to accept the message

### ST08 Media is not reaching the gap sensor

Action:                    insert media (check the sensor)  
                              press ON/OFF to accept the message

Status reports

ST 00		ST 15	head sensor not found (system will be locked)
ST 01	NOVRAM error (factory set)	ST 16	applicator home position not found
ST 02	NOVRAM write error	ST 17	dispenser pressure roller not closed
ST 03	no material in SNGL sensor	ST 18	dispenser backing paper rewinder full
ST 04	stacker full	ST 19	applicator – touch down not found
ST 05	material end	ST 20	EASY PLUG wrong command (imedeate)
ST 06	printhead overheated	ST 21	EASY PLUG wrong command between #ER and #Q
ST 07	ribbon end	ST 22	EASY PLUG command without #ER
ST 08	gap not found	ST 23	EASY PLUG not known command
ST 09		ST 24	receive error RS 232
ST 10	ramcard error	ST 25	spooler overflow
ST 11	ramcard error	ST 26	EASY PLUG wrong size or print adjustment
ST 12		ST 27	EASY PLUG counter overflow
ST 13	barcode reading error or media broken for rewinder	ST 28	EASY PLUG field outside print area
ST 14	cut sensor not found, dispenser second feeder, nothing	ST 29	EASY PLUG logo number doesn't exist

ST 30	EASY PLUG logo buffer to small	ST 45	
ST 31	EASY PLUG logo number error	ST 46	
ST 32	EASY PLUG postbarcode not OK	ST 47	
ST 33	EASY PLUG range command #PA to #M wrong	ST 48	
ST 34	COLOR PANEL color code not found	ST 49	
ST 35	COLOR PANEL logo does not fit to the card	ST 50	no read of scanner
ST 36	COLOR PANEL color card not found or programmable	ST 51	scanner not programmable (system will be locked)
ST 37		ST 52	stacker full (standard)
ST 38		ST 53	
ST 39	EASY PLUG speedo error	ST 54	
ST 40	receive error RS 232	ST 55	
ST 41	receive error RS 232	ST 56	
ST 42		ST 57	
ST 43		ST 58	
ST 44	ID matrix barcode error	ST 59	access denied for setting printer to zero

ST 60	memory allocation error (system will be locked)	ST 75	
ST 61	font allocation error (system will be locked)	ST 76	
ST 62	update or numberfield overflow	ST 77	
ST 63		ST 78	
ST 64		ST 79	
ST 65		ST 80	EASY CARD wrong name of file in #FO command
ST 66		ST 81	EASY CARD field number not found
ST 67		ST 82	EASY CARD syntax of #YT or #YB command wrong
ST 68	wrong board installed for selected peripherie option	ST 83	EASY CARD number of data field to big
ST 69	interrupt error (system stands)	ST 84	EASY CARD quantity of variable characters =0
ST 70	TDI stepper does not respond	ST 85	EASY CARD no card found
ST 71	headstrobe checksum wrong (system will be locked)	ST 86	DATA BASE not enough space for index file
ST 72	speedo system error	ST 87	DATA BASE no possibility to build index file
ST 73	speedo scaling wrong	ST 88	DATA BASE no possibility to sort index file
ST 74		ST 89	DATA BASE barcode onformation nor found in

ST 90	database contains identical records	POFF	Power OFF – printer is switched OFF
ST 91	barcode not readable	FAIL	Image card could not be formatted
ST 92		SCAN	Scanner was unable to decode the information
ST 93		OPEN	cover open – switch is open
ST 94		LOCK	the printer is locked
ST 95		DATA	data receive mode
ST 96	EASY CARD undefined error	STOP	printer in STOP mode
ST 97	EASY PLUG undefined error	SNGL	printer in single start mode
ST 98	INTERFACE undefined error	WAIT	printer in wait condition
ST 99	SYSTEM undefined error	HOST	printer stopped by host
	just warning – self confirming	INIT	printer is initialised
	must be confirmed by the user	DOWN	TDI table goes up
		UP	TDI table goes down
		.LDR	printer in loader mode
		.EMU	printer in emulation mode
		.SYS	printer in system mode
		SORT	data base information is sorted
		----	printer was switched on to early after power down
		LOAD	barcodes loaded from card

## **Chapter 4 maintenance, cleaning and service**

### Maintenance and cleaning

Clean on a regular basis the feed roller of the infeed unit - as well of the printer - and the metal parts from paper dust and glue!

If you are not cleaning regularly problem with the feed system can occur.

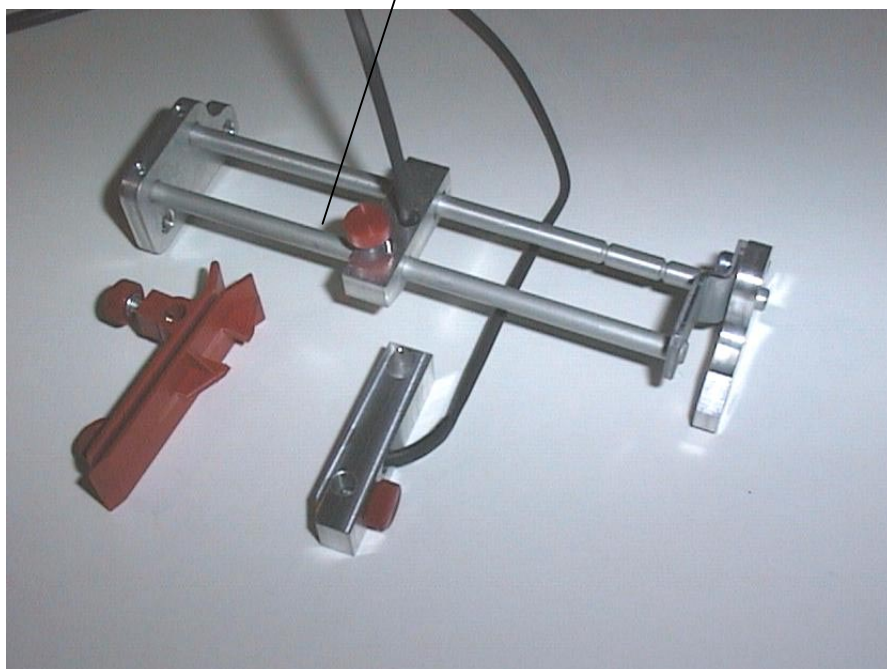
### Service

No special service is needed !

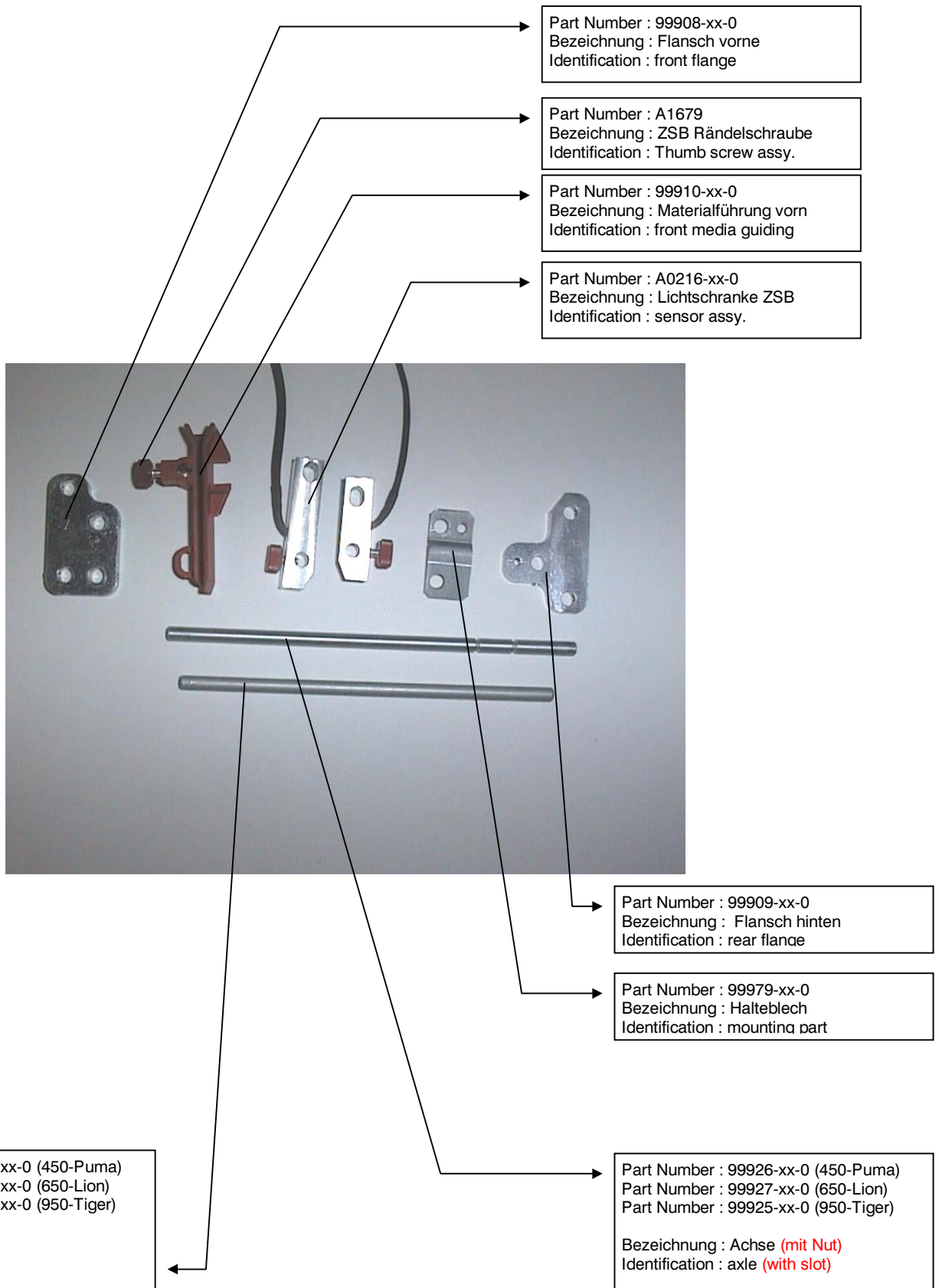
## **Chapter 7 Appendix**

[Spare parts](#)

Part Number : 99904-xx-2 (450-Puma)  
Part Number : 99984-xx-2 (650-Lion)  
Part Number : 99985-xx-2 (950-Tiger)  
  
Bezeichnung : Fullsize Lichtschanke ZSB  
Identification : full size punch sensor assy.







INDEX**A**

activate Infeed .....	15
Adjustment of the sensor .....	4, 14
Appendix .....	23
Assemble Option .....	4, 7

**C**

Change position of pressure lever .....	4, 7
Check Sensor .....	4, 15
cleaning .....	23
Contents .....	4
copyright .....	3
Copyright .....	3
CUT .....	15

**E**

EMUL .....	15
Error .....	5
Error handling .....	5

**F**

FEED .....	15
------------	----

**G**

General .....	2, 3, 4
General notes .....	3, 4

**I**

INDEX .....	4, 26
INFO .....	15
Information printout .....	16
Initialise or activate option .....	4, 15
Initiation .....	5

**M**

maintenance .....	23
Maintenance and cleaning .....	4, 23
Media limitation .....	4, 6
Mount full size sensor .....	4, 8

## **N**

notes .....	3
-------------	---

## **O**

operation .....	18
other .....	3, 15

## **P**

parameter .....	15, 16
Parameter Menu .....	4, 17
PEPH .....	15

## **R**

Remove media guiding .....	4, 7
----------------------------	------

## **S**

Service .....	1, 3, 4, 23
Set up mode .....	13
Spare parts .....	4, 24
ST05 .....	4, 18
ST08 .....	4, 18
Status .....	4, 18, 19
Status printout .....	4, 18
Status reports .....	19
SYSP .....	15

## **U**

Unpack .....	4, 6
--------------	------